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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/762,139	01/22/2004	Jen-Tong Ho	Y4P4001-D0C0020	4145

47415 7590 03/08/2005

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EXAMINER

REESE, DAVID C

ART UNIT	PAPER NUMBER
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3677

DATE MAILED: 03/08/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/762,139

Applicant(s)

HO, JEN-TONG

Examiner

David C. Reese

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on Amendment: 8 February 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 7, 8 and 10 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 7, 8 and 10 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 08 February 2005 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

The following is in response to the amendment filed by applicant 2/8/2005.

Response to Arguments

[1] Applicant's amendment, see amendment and remarks filed 2/8/2005, with respect to the rejection(s) of claim(s) 1-10 under Gotoh, US 5,015,134 have been fully considered since the allowable subject matter was entered or combined with other rejected subject matter. Therefore, the rejection with regard to Gotoh has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of 35 U.S.C. 112, not necessarily with regard to the claimed subject matter, but in terms of how the statements are presented, as well as the current state of the application, mainly focusing on the other parts of the disclosure, including the diagrams, and due to such, the claims are considered to be rejected. In general, the application is not in terms for allowance due to an excess of continuing grammatical and formatting problems within the specification as well as more diagram issues. Though it is noted that the examiner was given the ability to amend certain aspects of the application, the application is too saturated and the task is therefore burdensome for the examiner to fix all the problems. Please read below.

Status of Claims

[2] Claims 7, 8, and 10 are pending.

Drawings

[3] Figures 11-12 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

[Examiner notes that the above was overlooked during the first action]

[4] The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the helix angle ($\theta 1$) in the first section should be labeled in Figure 2; the fifth thread 15 should be labeled properly in Figure 1; and in Figure 3, the first thread and first helix are not labeled or shown (as stated in the detailed description of the invention, "With reference to Figs. 1 to 3...first section 51..."). The above, as stated in the detailed description, must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

[Examiner asks applicant's cooperation in maintaining the absence of future diagram issues]

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

[5] 35 U.S.C. 112, first paragraph, requires the specification to be written in "full, clear, concise, and exact terms." The specification is replete with terms which are not clear, concise and exact. The specification should be revised carefully in order to comply with 35 U.S.C. 112, first paragraph. Examples of some continuing unclear,

inexact or verbose terms used in the specification are: in the first sentence of the background of the invention, currently stated, "The prior art screw has thread with unique orientation." Consider: "The prior art screw has a thread with a unique orientation." Continuing, with the next sentence, "With reference to Fig. 12, an operation about screwing..." Consider: "With reference to Fig. 12, an operation for screwing..." Continuing with the next sentence, "It results that the screw is tightly clamped by the work piece..." Consider: "This results in that the screw is tightly clamped by the work piece." The above are just a few examples of minor grammatical and sentence structure issues that can be found throughout the entire application.

Claim Rejections - 35 USC § 112

[6] Claims 7, 8, and 10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Examiner understands what is being claimed in the disclosure, though recognizes that the terminology used in both the specification and claims is presented in a confusing manner that may be considered ambiguous to most. The examiner notes that a possible change or shuffle of certain words and sentences containing the words threads and helix angles may present the material in a more simplified manner. For example, in the detailed description of the screw, consider rearranging the sentence structure to go from a first section 51 having a first thread 11 with a first helix angle (θ_1), wherein a second section 52 with second thread 12 (instead

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of 14) with a second (instead of fourth) helix angle θ_2 (instead of θ_4) is connected to the first section. Next, tie in the third section, wherein the third section, which is connected to the second section, on the other side away from the first connection, having a third thread 13 with a third helix angle θ_3 , and wherein continuing down the length of the screw is the fourth section, connected to the third section, which possesses a fourth thread (instead of third thread) 14 (instead of 13) and fourth helix angle (instead of third) θ_4 (instead of θ_3). Continue the same pattern for the fifth section, and then tie them together later with other statements properly assigning percentages and differences between the helix angles. Corrections that are made here must then be addressed accordingly in the claim language.

Allowable Subject Matter

[7] Claims 7, 8 and 10 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

Conclusion

[8] Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David C. Reese whose telephone number is 703-305-4805. Due to a future move, however, this number will change after the 31st of March. After this date, the examiner can be reached at (571) 272- 7082. The examiner can normally be reached on 7:30 am - 5:00 pm M-Th, and every other Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, J.J. Swann can be reached on (703) 306-4115. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



ROBERT J. SANDY
PRIMARY EXAMINER

Sincerely,
David Reese
Examiner
Art Unit 3677